

11701 I-30 Bldg 1, Ste 115 - Little Rock, AR 72209 501-455-3233 Fax 501-455-6118

25 January 2013

Jim Fleer Oxford Environmental & Safety, Inc 14348 Nieman Rd. Overland Park, KS 66221

RE: Arkwood Monthly Sampling

SDG Number: 1301213

Enclosed are the results of analyses for samples received by the laboratory on 18-Jan-13 12:43. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals						
Containers Correct						
COC/Labels Agree	<u> </u>					
Preservation Confirmed	~					
Received On Ice						
Temperature on Receipt	4.0°C					

Sincerely,

Norma James President

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25 January 2013

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Oxford Environmental & Safety, Inc
14348 Nieman Rd.
Overland Park, KS 66221
Project: Arkwood Monthly Sampling

Date Received: 18-Jan-13 12:43



CASE NARRATIVE

Sample Delivery Group - 1301213

Qualified Analytical and/or Quality Control Results are Discussed Below:

Semivolatiles Analysis:

The three compounds labeled (surr) on the attached final report are "surrogates." Recovery of surrogates is for lab use only to determine the effectiveness of the extraction procedure; surrogate recoveries are not analytical results. The three surrogate compounds are as follows: 2,4,6-tribromophenol, 2-fluorophenol, and Phenol-d5.

<u>Surrogate Failure:</u> The surrogate 2,4,6-Tribromophenol failed to recover within acceptance limits in sample 1301213-01 (Mouth). The recovery was qualified by "%D3." The results for sample 1301213-01 (Mouth) were qualified as "estimated" (E1) due to this failure.

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Lab Number: 1301213-01
Sample Name: Mouth
Date/Time Collected: 1/16/13 14:15
Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	<u>Result</u>	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Pentachlorophenol	ug/L	40.5	E1	1/21/13 18:33	A301237	8270D
2,4,6-Tribromophenol [surr]	%	115	%D3	1/21/13 18:33	A301237	8270D
2-Fluorophenol [surr]	%	57.5		1/21/13 18:33	A301237	8270D
Phenol-d5 [surr]	%	40.5		1/21/13 18:33	A301237	8270D

ANALYTICAL RESULTS

Lab Number: 1301213-02
Sample Name: Weir
Date/Time Collected: 1/16/13 13:45
Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	Result	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	Method
Pentachlorophenol	ug/L	2.12		1/21/13 18:55	A301237	8270D
2,4,6-Tribromophenol [surr]	%	90.9		1/21/13 18:55	A301237	8270D
2-Fluorophenol [surr]	%	50.0		1/21/13 18:55	A301237	8270D
Phenol-d5 [surr]	%	35.2		1/21/13 18:55	A301237	8270D

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QUALITY CONTROL RESULTS



		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch A301237 - 3510C Modified										
Blank (A301237-BLK1)				Prepared 8	& Analyzed	: 21-Jan-13				
Pentachlorophenol	ND	5.00	ug/L							
Surrogate: 2,4,6-Tribromophenol	34.0		"	40.0		85.1	19.3-113			
Surrogate: 2-Fluorophenol	25.1		"	40.0		62.7	13-75.4			
Surrogate: Phenol-d5	19.7		"	40.0		49.1	13.1-75.2			
LCS (A301237-BS1)	Prepared & Analyzed: 21-Jan-13									
Pentachlorophenol	41.4	5.00	ug/L	40.0		103	48.5-124			
Surrogate: 2,4,6-Tribromophenol	43.8		"	40.0		109	19.3-113			
Surrogate: 2-Fluorophenol	25.5		"	40.0		63.8	13-75.4			
Surrogate: Phenol-d5	20.9		"	40.0		52.1	13.1-75.2			
LCS (A301237-BS2)				Prepared 8	& Analyzed					
Pentachlorophenol	30.9	5.00	ug/L	36.0		85.9	48.5-124			
Surrogate: 2,4,6-Tribromophenol	37.8		"	40.0		94.6	19.3-113			
Surrogate: 2-Fluorophenol	15.3		"	40.0		38.3	13-75.4			
Surrogate: Phenol-d5	12.5		"	40.0		31.3	13.1-75.2			
Matrix Spike (A301237-MS1)	Sour	ce: 13012	15-01	Prepared & Analyzed: 21-Jan-13						
Pentachlorophenol	75.0	10.0	ug/L	80.0	ND	93.8	29.2-146			
Surrogate: 2,4,6-Tribromophenol	75.7		"	80.0		94.7	19.3-113			
Surrogate: 2-Fluorophenol	43.3		"	80.0		54.1	13-75.4			
Surrogate: Phenol-d5	36.9		"	80.0		46.1	13.1-75.2			
Matrix Spike Dup (A301237-MSD1)	Sour	ce: 13012	15-01	Prepared 8	& Analyzed	: 21-Jan-13				
Pentachlorophenol	78.9	10.0	ug/L	80.0	ND	98.7	29.2-146	5.10	25.6	

80.0

80.0

80.0

101

57.5

46.2

19.3-113

13-75.4

13.1-75.2

QUALIFIER(S)

Surrogate: Phenol-d5

Surrogate: 2,4,6-Tribromophenol

Surrogate: 2-Fluorophenol

*%D3: Surrogate Percent Recovery Does Not Meet Laboratory Acceptance Criteria

80.9

46.0

37.0

*E1: Estimated Result Due to Surrogate Failure

All Analysis performed according to EPA approved methodology when available:

SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods, 20th Edition. Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Reviewed by:

Norma James President Arkansas Analytical



11701 Interstate 30, Bldg. 1, Ste. 115

Little Rock, AR 72209 PHONE: 501-455-3233 FAX: 501-455-6118

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION						Project Desc	ription	Turnaround Time	Time Preservation Codes:									
Oxford Environmental & Safety, Inc.					.t /	Arkwood Monthl	y Sampling	24 Hour	1. Cool,	4 Degrees	Centigrade	tigrade 4. Thiosulfate for Dechloring				ation		
14348 Nieman Rd.				a 48 Hour				2. Sulfan	ric Acid (H	H ₂ SO ₄), pH <	< 2							
Overland Park KS 66221					Reporting Information 72 Hour			3. Nitric	3. Nitric Acid (HNO ₃), pH < 2 6. Sodium Hydroxide (NaOH						I) pH > 12			
		5				Telephone: 913-706-3422 Routine (5 Day			Routine (5 Day)	\triangleright	Т	EST	PARA	MET	ERS			Bottle Type Code
Attn: Jim Fleer		i							Preservative Code:	1	F						G	Glass; P = Plastic
								Bottle Type:	GA							V =	Septum; A = Amber	
Sampler(s) Signature Jawes Sampler(s) Print				Teev							79				An	Arkansas alytical Work der Number:		
Field	SAMPLE C	OLLECTION			Numbo			SAMPLE		Pentachlorophenol (8270D)								
Number	Date/s	Time/s	Oh		Number	Sample	IDENTIE	ICATION/ DES	CDIDTION	enta 827(11	301213
Number	STEP 100 TO 100		Grab	Comp	Bottles	Matrix		ICATION DES	CKIFTION									- 1
	1/16/13	14:15	X		1		Mouth			X				-				01
	1114113	13:45	X	-	1	Water	Weir			Х								02
									- =									
											1							
•				-			•		•		-	-						_
-			-	-	-	-								*				
				_														
																	•	
1. Relinguished by	y: (Signature)	Date/Time		2. Re	ceived	by: (Si	gnature)	SAMPLE	CONDITION UPON	RECEIPT	T IN LAB		R	EMARK	S / SAI	WPLE C	OMMEN	ITS
- n		1/16/2013					1. CUSTODY SEALS:				sN	MS/	MSD C	allected	from	Mand	da	
Form EDV	u,	1/16/2013			9	10				1						111000		
		15.15				11.		2. CONTAINER	S CORRECT:	Ye	sN	OFF	Durer!	, 3.16	-			
					U			3. COC/LABELS	S AGREE:	Ye	sN	0 05	Power	15%	,			
3. Relinquished by: (Signature) Date/Time 4. Received			d by lab: (Signature) 4. PRESERVATION CONFIRMED:			Ye	sN	0 03	Conce	17.1			Wor	Mouth				
1 1		1-18-13				6. RECEIVED ON ICE:			ON ICE:	Ye	sN	0 03	Residue	111.6	4 T	emp	13.08	14.36
\ \	1	11/3		AA	1(1)	1 do	Unh118	6. TEMPERATU	JRE ON RECEIPT:	400			ı			H	6.41	6.96
V(1240			CVU		0000	FOR	R COMPLETION BY	LAB ON	LY				,		241.1	54.3
Revision 1 12/1/10)											